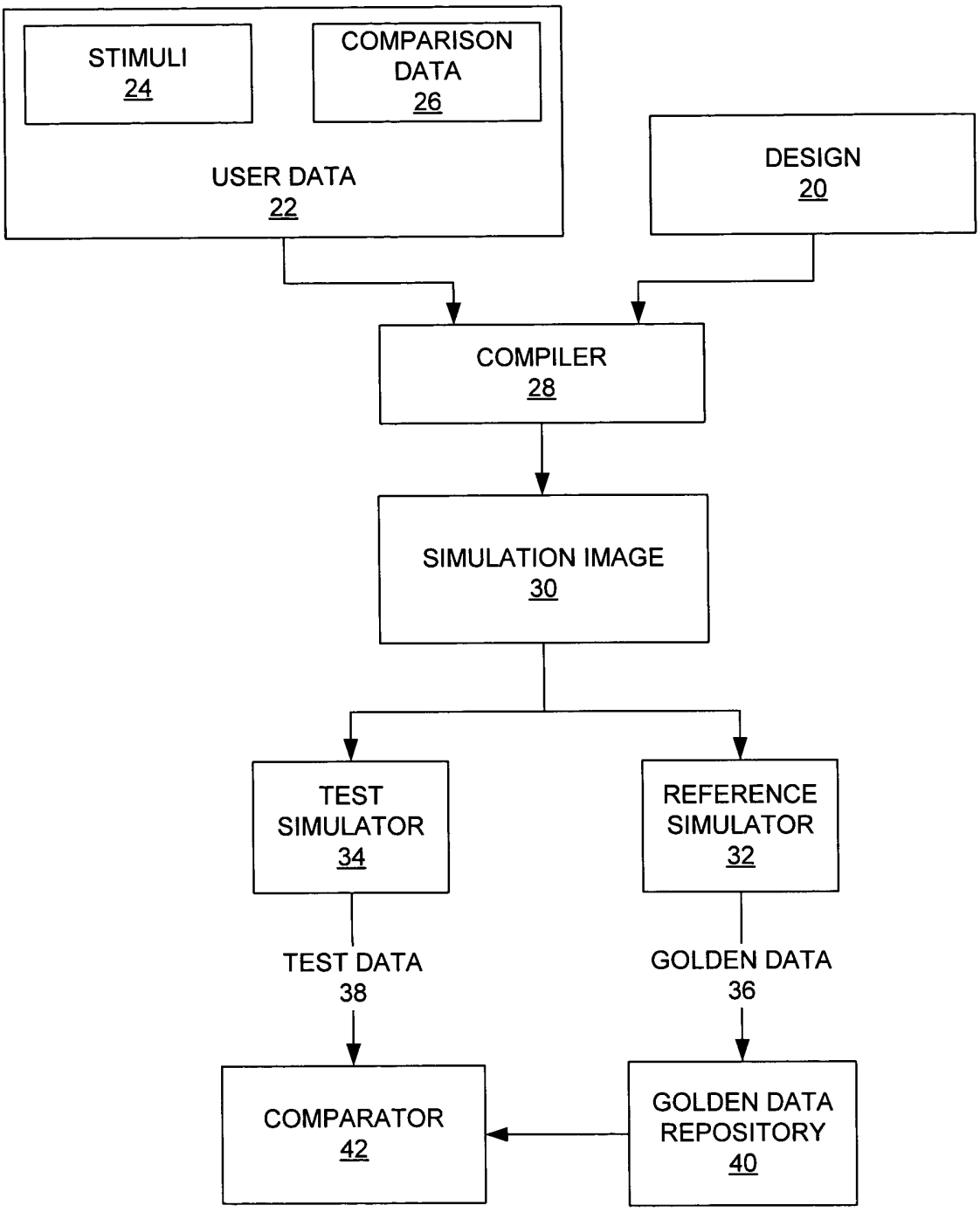
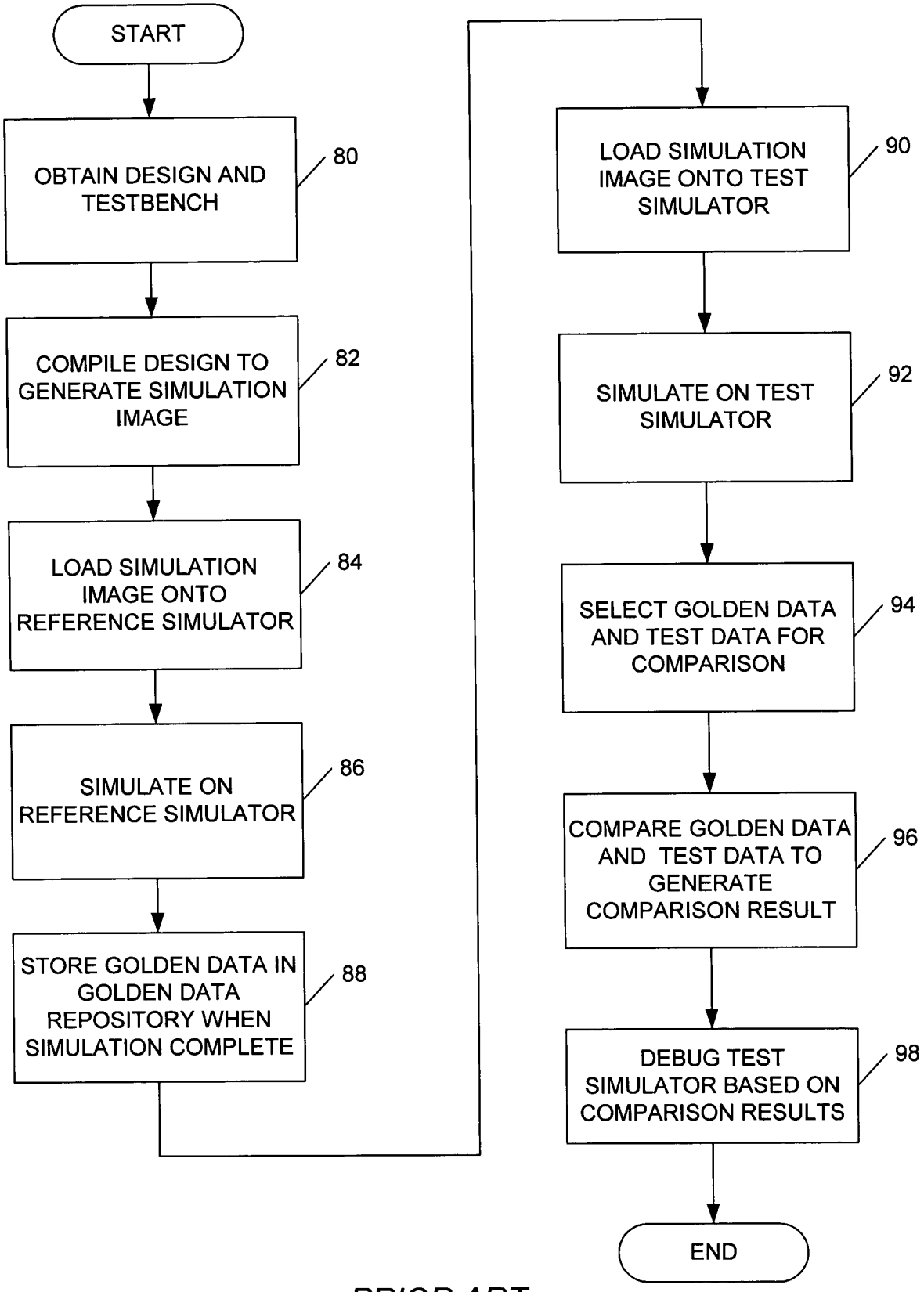
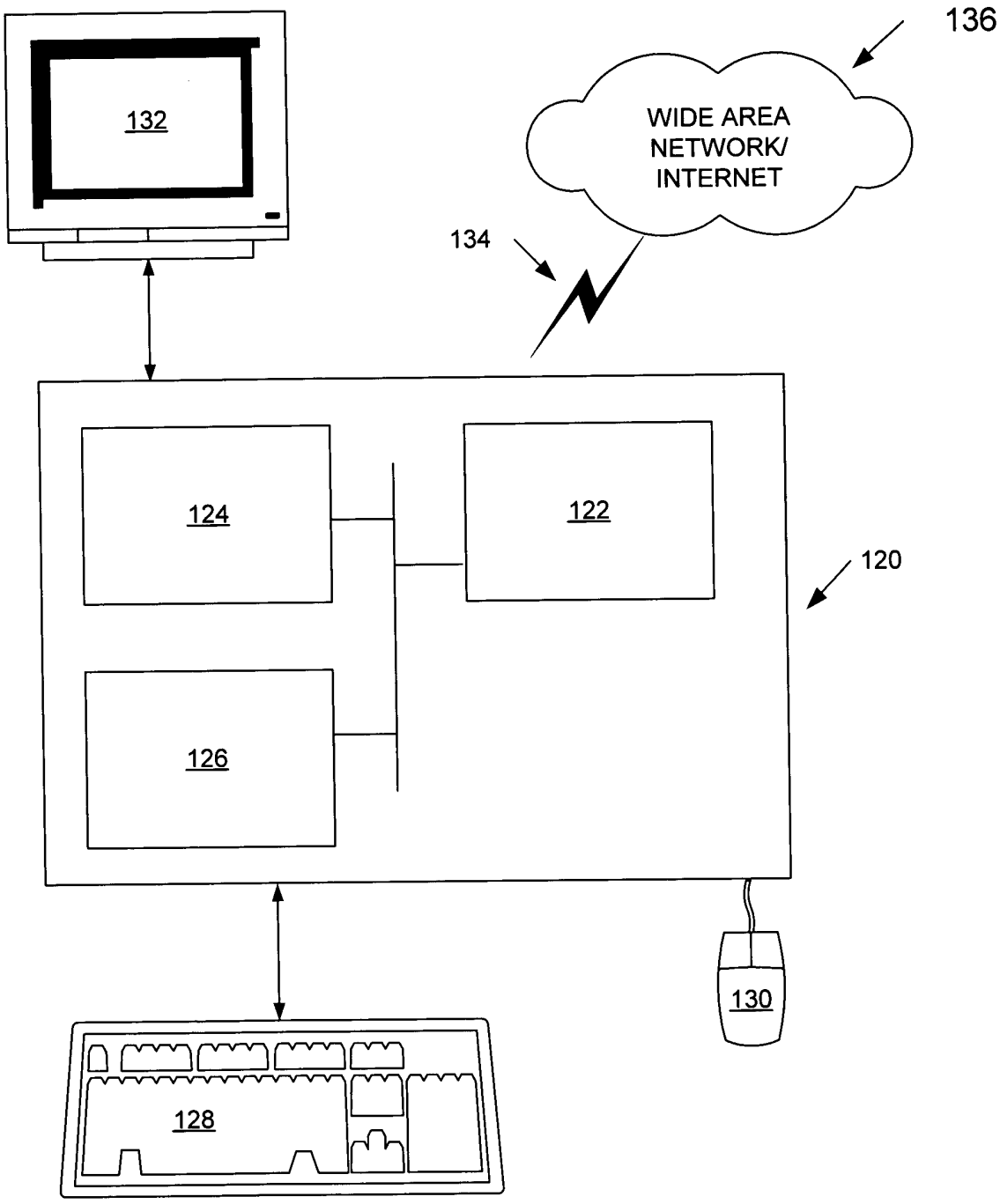


PRIOR ART
FIGURE 1



PRIOR ART
FIGURE 2



PRIOR ART
FIGURE 3

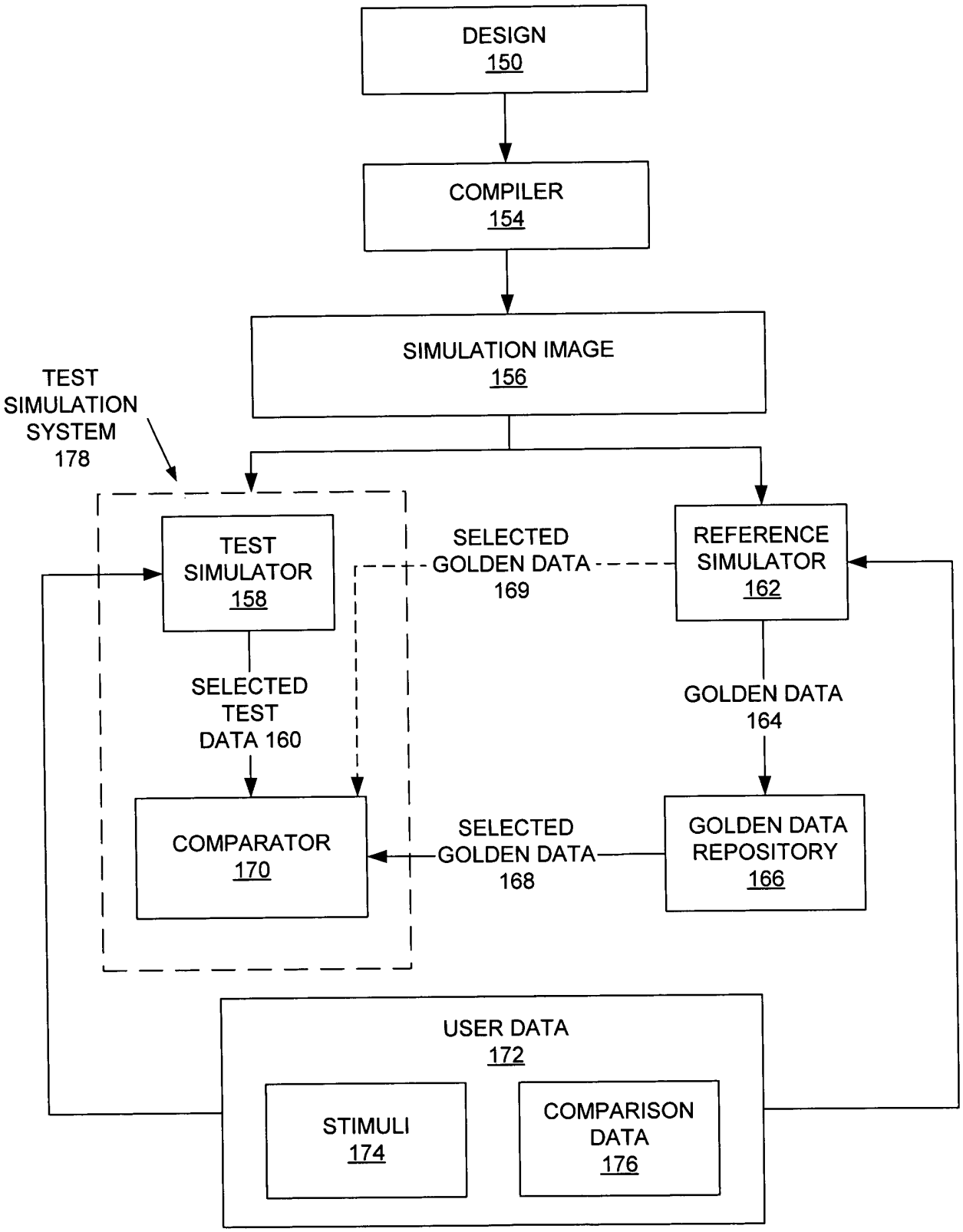

DESIGN
150
COMPILER
154
SIMULATION IMAGE
156
TEST
SIMULATION
SYSTEM
178
TEST
SIMULATOR
158
SELECTED
GOLDEN DATA
169
REFERENCE
SIMULATOR
162
SELECTED
TEST
DATA 160
GOLDEN DATA
164
COMPARATOR
170
SELECTED
GOLDEN DATA
168
GOLDEN DATA
REPOSITORY
166
USER DATA
172
STIMULI
174
COMPARISON
DATA
176

FIGURE 4

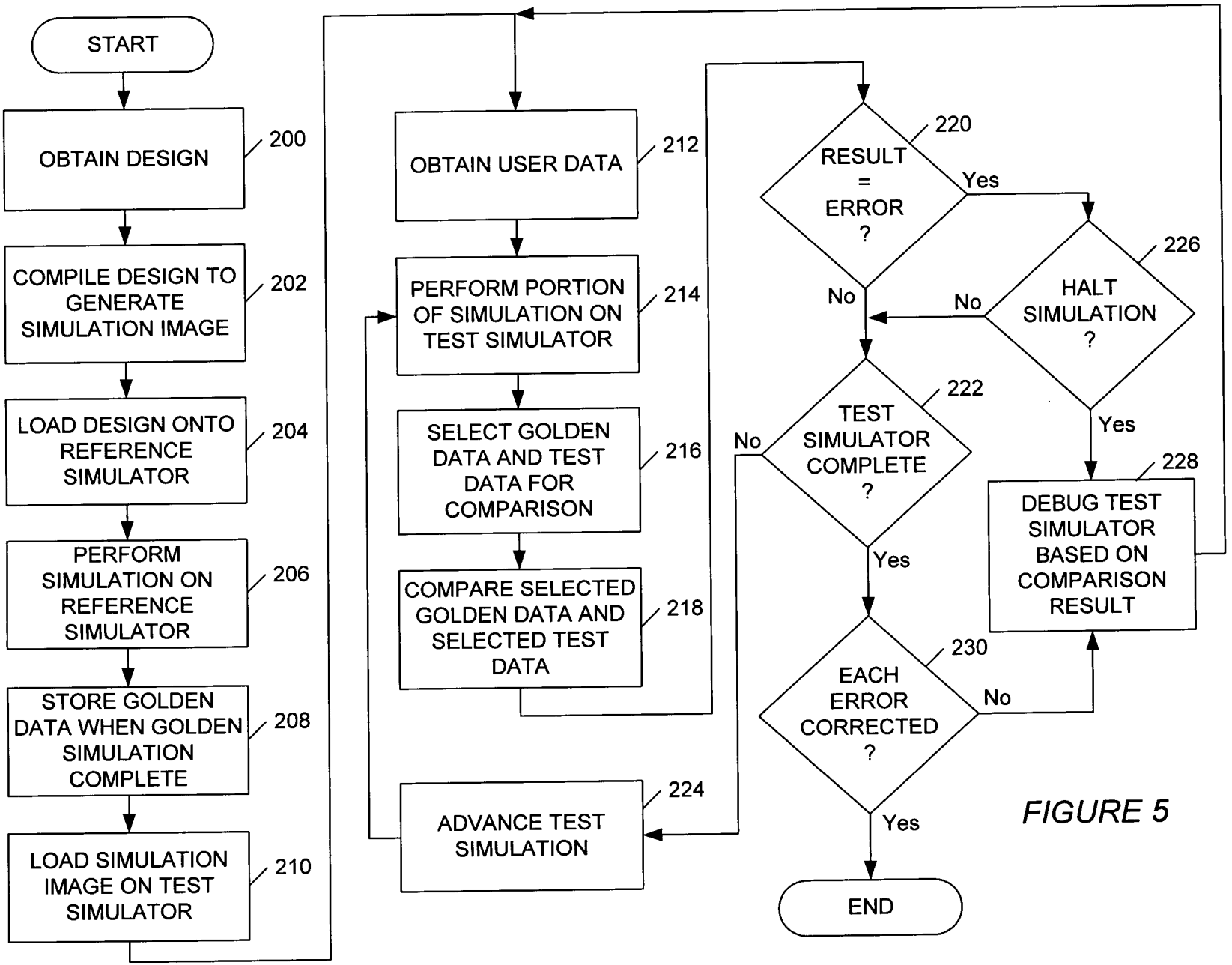

START
OBTAIN DESIGN
200
COMPILE DESIGN TO GENERATE SIMULATION IMAGE
202
LOAD DESIGN ONTO REFERENCE SIMULATOR
204
PERFORM SIMULATION ON REFERENCE SIMULATOR
206
STORE GOLDEN DATA WHEN GOLDEN SIMULATION COMPLETE
208
LOAD SIMULATION IMAGE ON TEST SIMULATOR
210
OBTAIN USER DATA
212
PERFORM PORTION OF SIMULATION ON TEST SIMULATOR
214
SELECT GOLDEN DATA AND TEST DATA FOR COMPARISON
216
COMPARE SELECTED GOLDEN DATA AND SELECTED TEST DATA
218
ADVANCE TEST SIMULATION
224
RESULT = ERROR ?
220
Yes
No
HALT SIMULATION ?
226
No
Yes
TEST SIMULATOR COMPLETE ?
222
No
Yes
DEBUG TEST SIMULATOR BASED ON COMPARISON RESULT
228
EACH ERROR CORRECTED ?
230
No
Yes
END

FIGURE 5

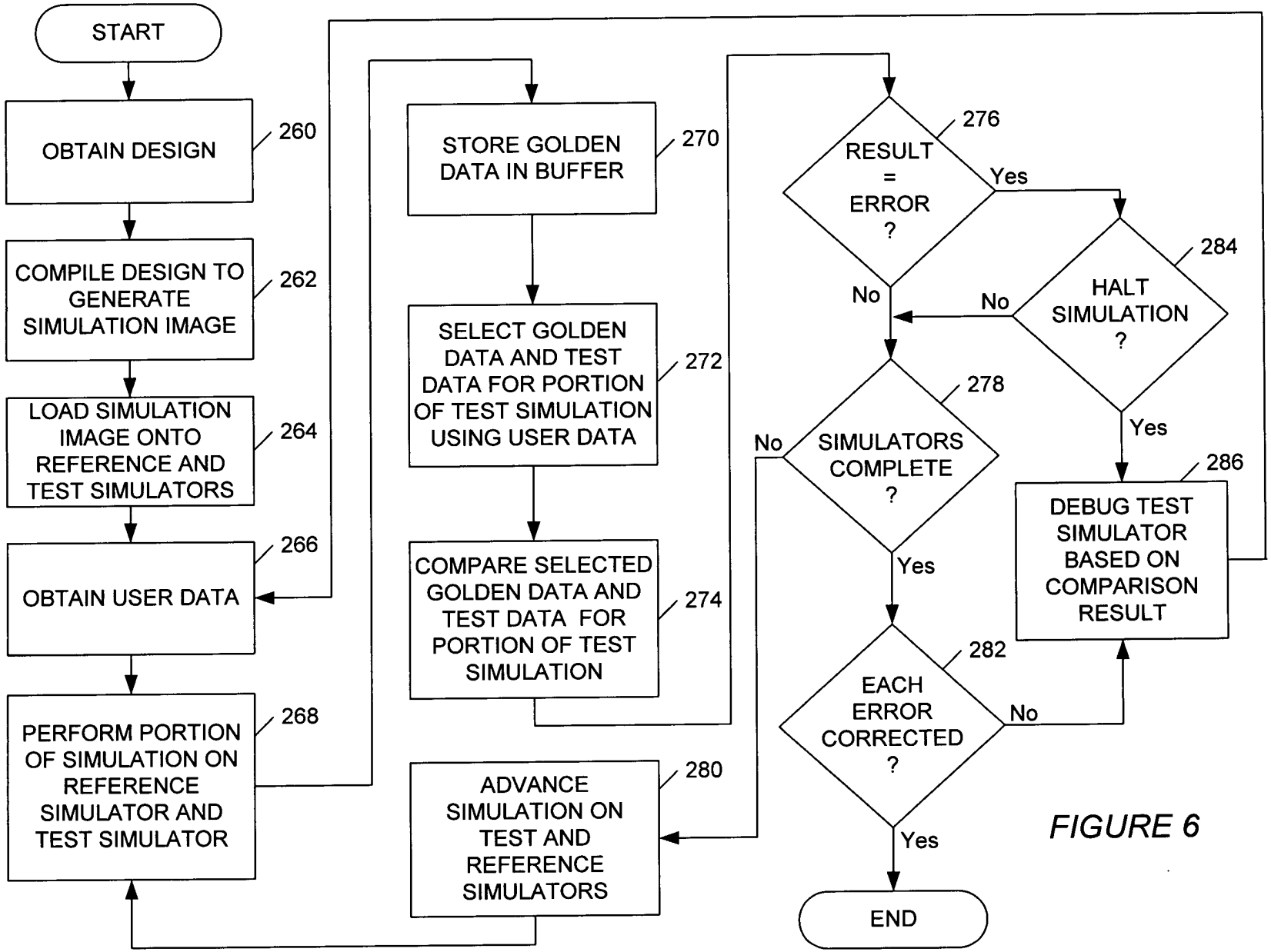

START
OBTAIN DESIGN
260
COMPILE DESIGN TO GENERATE SIMULATION IMAGE
262
LOAD SIMULATION IMAGE ONTO REFERENCE AND TEST SIMULATORS
264
OBTAIN USER DATA
266
PERFORM PORTION OF SIMULATION ON REFERENCE SIMULATOR AND TEST SIMULATOR
268
STORE GOLDEN DATA IN BUFFER
270
SELECT GOLDEN DATA AND TEST DATA FOR PORTION OF TEST SIMULATION USING USER DATA
272
COMPARE SELECTED GOLDEN DATA AND TEST DATA FOR PORTION OF TEST SIMULATION
274
ADVANCE SIMULATION ON TEST AND REFERENCE SIMULATORS
280
RESULT = ERROR ?
276
Yes
No
HALT SIMULATION ?
284
No
Yes
SIMULATORS COMPLETE ?
278
No
Yes
DEBUG TEST SIMULATOR BASED ON COMPARISON RESULT
286
EACH ERROR CORRECTED ?
282
No
Yes
END

FIGURE 6